

## Water-Data Report 2008

**411333074311001 Local number 370583- Dom**

 Piedmont and Blue Ridge crystalline-rock aquifers  
 Precambrian Erathem

Sussex County, NJ

LOCATION.--Lat 41°13'33", long 74°31'10" referenced to North American Datum of 1983, Vernon Township, Sussex County, NJ, Hydrologic Unit 02020007.

**WATER-QUALITY RECORDS**

WELL CHARACTERISTICS.--Depth 400 ft. Upper casing diameter 6 in; top of first opening 160 ft, bottom of last opening 400 ft.

DATUM.--Land-surface datum is 875 ft above National Geodetic Vertical Datum of 1929. Measuring point: Undefined.

PERIOD OF RECORD.--WY 2008.

REMARKS.--Middle Proterozoic Metasedimentary rock.

COOPERATION.--Water-quality samples were collected as part of the North New Jersey Radionuclide project, in cooperation with the New Jersey State Department of Environmental Protection.

**WATER-QUALITY DATA  
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 1 of 4

[QC, quality control sample. Remark codes: &lt;, less than; &gt;, greater than; E, estimated; M, presence verified but not quantified.]

Date	Time	Sample medium and type	Turbidity white light, det ang 90+/-30 corrctd NTRU (63676)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	pH, water, unfiltrd field, std units (00400)	Speci- fic conduc- tance, wat unf μS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)
<b>Nov</b>									
06...	1730	Ground water, regular	24	750	.5	7.6	463	10.9	10.9
06...	1730	QC - Ground water, replicate	--	--	--	--	--	--	--
06...	1825	QC - Ground water, replicate	--	--	--	--	--	--	--
06...	1835	Treated water supply, regular	1.1	--	6.9	7.9	594	--	14.5

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 2 of 4

[QC, quality control sample. Remark codes: &lt;, less than; &gt;, greater than; E, estimated; M, presence verified but not quantified.]

Date	Calcium	Chloride,	Silica, water,	Sulfate	Ammonia	Nitrate + nitrite	Ortho-phosphate, water,	E coli, Defined Substr.	Total coliform,				
	water, fltrd, mg/L (00915)	water, fltrd, mg/L (00940)	water, fltrd, mg/L SiO2 (00955)	water, fltrd, mg/L (00945)	water, fltrd, mg/L as N (00608)	water, fltrd, mg/L as N (00631)	water, fltrd, mg/L as P (00613)	water, fltrd, MPN/100 mL (00671)	Tech., MPN/100 mL (50468)	Arsenic water, fltrd, µg/L (50569)	Barium, water, fltrd, µg/L (01000)	Iron, water, fltrd, µg/L (01005)	Total coliform, µg/L (01046)
<b>Nov</b>													
06...	55.8	41.4	12.8	17.7	<.020	.07	<.002	E.005	<1	>1	14.9	5.7	8
06...	--	--	--	--	--	--	--	--	--	--	14	--	--
06...	--	--	--	--	--	--	--	--	--	--	M	--	--
06...	7.30	--	--	--	--	--	--	--	<1	<1	.34	E.4	<8

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 3 of 4

[QC, quality control sample. Remark codes: &lt;, less than; &gt;, greater than; E, estimated; M, presence verified but not quantified.]

Date	Manganese, water, fltrd, µg/L (01056)	Strontium, water, fltrd, µg/L (01080)	Alpha radioac 2-sigma (62637)	Alpha radioac mdc, 72 hr, wat flt Th-230, pCi/L (62638)	Alpha radioac 72 hr, wat flt Th-230, pCi/L (62636)	Ra-226 Ra-224 2-sigma	Ra-226 water, fltrd, gamma (50911)	Ra-226 Ra-226 2-sigma	Ra-228 water, fltrd, gamma (50837)	Ra-228 water, fltrd, gamma (50840)	Ra-228 water, unfltrd gamma (99326)	Rn-222 water, unfltrd gamma (50839)	
	µg/L (01056)	µg/L (01080)	pCi/L (62637)	pCi/L (62638)	pCi/L (62636)	Ra-224 MDC, water, fltrd, gamma (99324)	Ra-226 MDC, water, fltrd, gamma (99325)	Ra-226 MDC, water, fltrd, gamma (50837)	Ra-228 MDC, water, fltrd, gamma (50840)	Ra-228 MDC, water, fltrd, gamma (99326)	Rn-222 MDC, water, unfltrd gamma (50839)	Rn-222 water, unfltrd gamma (76002)	
<b>Nov</b>													
06...	34.3	123	.90	.43	250	.5100	.61	.4100	17.4	.48	1.100	E1.00	130
06...	--	--	--	--	--	.5100	.88	.4100	17.2	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
06...	--	11.1	.80	.58	1.55	.5600	.25	.7000	E.19	.55	1.500	<1.50	--

**411333074311001 Local number 370583- Dom—Continued**

**WATER-QUALITY DATA  
WATER YEAR OCTOBER 2007  
TO SEPTEMBER 2008**

Part 4 of 4  
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quantified.]

Date	Uranium	
	Rn-222, natural water, unfltrd	water, fltrd,
	pCi/L (82303)	µg/L (22703)
<b>Nov</b>		
<b>06...</b>	19,600	623
<b>06...</b>	--	485
<b>06...</b>	--	.50
<b>06...</b>	--	.49